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Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-56c/CEMENT/2019-20 Date: 09.03.2020

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Improvement to roads and drains at Karekallu and Vinayaka Nagara in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/LOA/592/2019-20 Dated : 06.03.2020
* Sample ID	:	Cement
Sample Received on	:	07.03.2020
Period of Testing	:	07.03.2020 to 09.03.2020
Report Issue Date	:	09.03.2020

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	190 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	385 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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ಬೆಂಗಳೂರು-560073.

M/s. Civil-Tech Consultants & Engineers

Authorised Signatory

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Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-56c/Cube/2020-21 08.04.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Improvement to roads and drains at Karekallu and Vinayaka Nagara in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/LOA/592/2019-20 Dated : 06.03.2020
* Sample ID	:	RCC Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	08.04.2020
Report Issue Date	:	08.04.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.03.2020	08.04.2020	8.187	595.8	26.48
2	11.03.2020	08.04.2020	8.369	604.5	26.87
3	11.03.2020	08.04.2020	8.267	618.7	27.50

*Information is furnished by the Customer/Representative.

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Improvement to roads and drains at Karekallu and Vinayaka Nagara in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/LOA/592/2019-20 Dated : 06.03.2020
* Sample ID	:	RCC Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	08.04.2020
Report Issue Date	:	08.04.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.03.2020	08.04.2020	8.378	603.5	26.82
2	11.03.2020	08.04.2020	8.459	618.4	27.48
3	11.03.2020	08.04.2020	8.256	625.6	27.80

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Improvement to roads and drains at Karekallu and Vinayaka Nagara in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/LOA/592/2019-20 Dated : 06.03.2020
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.04.2020
Report Issue Date	:	09.04.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.03.2020	09.04.2020	8.190	610.4	27.13
2	12.03.2020	09.04.2020	8.232	621.8	27.64
3	12.03.2020	09.04.2020	8.360	632.5	28.11

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Improvement to roads and drains at Karekallu and Vinayaka Nagara in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/LOA/592/2019-20 Dated : 06.03.2020
* Sample ID	:	RCC Culvert Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	10.04.2020
Report Issue Date	:	10.04.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.03.2020	10.04.2020	8.302	598.9	26.62
2	13.03.2020	10.04.2020	8.405	613.2	27.25
3	13.03.2020	10.04.2020	8.399	621.5	27.62

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Job No.: CTCE/BBMP/KRIDL/W.No.14/WMM/Gradation/2020-21 10.03.2020

TEST REPORT ON GRADATION OF WET MIX MACADAM

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Improvement to roads and drains at Karekallu and Vinayaka Nagara in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/LOA/592/2019-20 Dated : 06.03.2020
Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386 (part-1) : 1963 (RA-2016)
Date of Testing	:	10.03.2020
Report Issue Date	:	10.03.2020

Oven Dry Wt (gm): **5000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits As per Morth Table 400-13
53	0	0	0	100	100
45	105	105	2.1	97.9	95-100
22.4	1560	1665	33.30	66.70	60-80
11.2	1050	2715	54.30	45.70	40-60
4.75	625	3340	66.80	33.20	25-40
2.36	580	3920	78.40	21.60	15-30
0.600	355	4275	85.50	14.50	8-22
0.075	480	4755	95.10	4.90	0-8

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Job No.: CTCE/BBMP/KRIDL/W.No.14/WMM/Gradation/2020-21 10.03.2020

TEST REPORT ON GRADATION OF WET MIX MACADAM

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Improvement to roads and drains at Karekallu and Vinayaka Nagara in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/LOA/592/2019-20 Dated : 06.03.2020
Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386 (part-1) : 1963 (RA-2016)
Date of Testing	:	10.03.2020
Report Issue Date	:	10.03.2020

Oven Dry Wt (gm): **5000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits As per Morth Table 400-1
53	0	0	0	100	100
45	180	180	3.6	96.4	95-100
22.4	1290	1470	29.40	70.60	60-80
11.2	1065	2535	50.70	49.30	40-60
4.75	600	3135	62.70	37.30	25-40
2.36	605	3740	74.80	25.20	15-30
0.600	415	4155	83.10	16.90	8-22
0.075	525	4680	93.60	6.40	0-8

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Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-56c/Cube/2020-21 11.04.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Improvement to roads and drains at Karekallu and Vinayaka Nagara in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/LOA/592/2019-20 Dated : 06.03.2020
* Sample ID	:	Road Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.04.2020
Report Issue Date	:	11.04.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.03.2020	11.04.2020	8.133	710.4	31.57
2	14.03.2020	11.04.2020	8.220	720.8	32.04
3	14.03.2020	11.04.2020	8.305	730.5	32.47

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